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# STATE OF NEW YORK DEPARTMENT OF CONSERVATION WATER POWER AND CONTROL COMMISSION

### THE WATER TABLE IN THE WESTERN AND CENTRAL PARTS OF

LONG ISLAND, NEW YORK

By

C. E. JACOB

Prepared in Cooperation with the Geological Survey
United States Department of the Interior



BULLETIN GW-12

ALBANY

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### NEW YORK STATE WATER POWER AND CONTROL COMMISSION

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#### CONTENTS

	Page 1
Introduction	1
Geology	2
Early ground-water records	3
Map of 1905 by Burr-Hering-Freeman Commission	4
Map of 1908 by Board of Water Supply, City of New York	6
Map of 1933 by Wiggin	8
Map of 1936 by Water Power and Control Commission	8
Map of 1943 by Geological Survey	10
References	15
Table of data on shallow observation wells on Long Island	17
ILLUSTRATIONS	
Plate 1. Map of the western and central parts of Long Island,	
New York, showing contours of the water table May	
1943	ack)
Plate 2. Cross-sections of the western and central parts of	
Long Island, New York, showing profiles of the water	
table in 1903 and 1943 (Ba	ack)

#### INTRODUCTION

Since January 1952, the Geological Survey, United States Department of the Interior, has cooperated with the New York State Water Power and Control Commission, the Nassau County Department of Public Works, the Suffolk County Board of Supervisors, and more recently also with the Suffolk County Water Authority, in an intensive study of the ground-water resources of Long Island. This work is under the general direction of O. E. Meinzer, Geologist in Charge of the Division of Ground Water, of the Water Resources Branch of the Survey, and under the immediate supervision of M. L. Brashears, Jr., Geologist in Charge of ground-water investigations in New York and New England.

The continuing program has included the systematic measurement of water levels in shallow observation wells on the island. The purpose of these measurements has been in part to map the ground-water table and to evaluate its fluctuations, whether natural ones resulting from variations in rates of precipitation, evaporation, and transpiration, or artificial ones resulting from pumping for municipal, industrial, agricultural, or other useful purposes. The contour map of the water table presented in this report represents in a sense the culmination of an effort to expand a growing network of observation wells to cover most of Long Island. In another sense, however, it will merely serve as a guide, along with earlier contour maps, pointing to a more complete and accurate map that may be obtained by adequate coverage of the entire island by shallow test wells, and particularly of the critical area in Brooklyn and western Queens.

The present map has been made possible by the cooperative effort of many persons.

Mr. W. Fred Welsch, Senior Engineer of the Nassau County Department of Public

Works, willingly made available members of the staff who assisted the Geological Survey in making the water-level measurements in May 1943. Mr. Henry L. Frauenthal, of the same organization, offered many helpful suggestions. Grateful acknowledgment is also due Mr. Russell Suter, Executive Engineer of the New York State Water Power and Control Commission, whose constructive criticism led to notable improvements in the map. The coverage of western Suffolk County was made possible by the financial cooperation of the Board of Supervisors and the Water Authority of that county. The drafting of the map and sections was executed by Mr. Lauren R. Wistoft, of the Geological Survey.

#### GEOL OGY

The geology of Long Island has been discussed at length by several writers (6) (10) (12) (13) and will therefore only be sketched briefly here.

Long Island is formed of glacial deposits of varying thickness that were laid down on unconsolidated beds of Cretaceous age. The backbone of the island is a double row of hills representing terminal moraines fashioned by the great ice sheets of the Pleistocene epoch. South of these morainal deposits is an outwash plain that slopes gently toward the ocean. The outwash material is quite permeable and rather uniform in structure. The water table in the area south of the moraines is accordingly a more or less continuous surface of low slope, though modified somewhat by the streams that it feeds.

Along the north shore of the island the glacial deposits are much less homogeneous and generally less permeable, being composed in part of till. Numerous bays cut into the shore of the island along the sound. Flowing into these bays are many small streams of steep slope, some of which are fed by natural springs. In the area north of the moraines there are several small lakes and water tables perched on impermeable lenses above the main water table. There the main water table slopes steeply and in irregular fashion, generally toward the north shore.

The upper Cretaceous beds that underlie the glacial deposits on most of
Long Island and crop out in some places are also of importance because of their
influence on the configuration of the main water table. The uppermost beds of
that series, which are supposedly of Magothy age, comprise interbedded sands and
silts totalling several hundred feet in thickness. Underlying these sands and
silts are clays assigned to the Raritan formation, which in turn are underlain by
Lloyd sand, also considered to belong to the Raritan formation. The Lloyd sand,
an excellent water-bearing bed, rests unconformably on the ancient crystalline
rocks, and dips toward the southeast about 100 feet to the mile. The sands of
the Magothy formation, as well as the Lloyd sand, all have the main water table
on Long Island as the source of their head. These sands unquestionably affect
the shape of the main water table.

In many areas over the island it is difficult to establish the bottom of the main water-table aquifer.

#### EARLY GROUND-WATER RECORDS

In 1851 water-level measurements were made in about 30 shallow wells in the southern parts of Kings and Queens Counties. These were reported by McAlpine (1) in 1852. However, neither the exact locations of the wells nor the dates of measurements are given.

The earliest known contour map of the water table of any part of Long Island appeared in 1867 in a report by Kirkwood (2). It covered the area lying between Jamaica and Hempstead and extending about 8 miles inland from the south shore. The measurements upon which this map was based presumably were made in the late fall of 1859 or the early spring of 1860 (3). In 1854 Stoddard (4) reported elevations of the water table at several wells in Brooklyn in connection with a study of possibilities of water supply from underground sources in that area.

#### MAP OF 1903 BY BURR-HERING-FREEMAN COMMISSION

In November 1905 the Commission on Additional Water Supply for the City of New York reported its findings to the Commissioner of Water Supply, Gas and Electricity (5). This Commission came to be known as the Burr-Hering-Freeman Commission, for those were the names of its members. Their report included a contour map (Plate VIII of Appendix VII, following p. 810) of the water table as of July 1, 1903, based on water-level readings in 1,378 shallow wells, 333 of which were 2-inch test wells driven especially for that purpose. The map covered that part of Long Island lying west of Manor and Moriches, Suffolk County, except the area within the Borough of Brooklyn of the City of New York. By means of a five-foot contour interval it showed a water table conforming to the general outline of the island and modified by the numerous bays and streams. The maximum slopes of the water table on the south shore, as measured on ten north-south sections across the island ((5), Plate VII of Appendix VII, following p. 810), ranged from 7 to 20 feet per mile and averaged about 14 feet per mile. Slopes on the north shore were reported as ranging from 30 to 100 feet per mile, though they were not so well defined because of the variable composition and structure of the morainal material there in contrast to the more nearly uniform deposits that underlie the outwash plains to the south.

The datum of the Brooklyn Water Department was used in the Burr-Hering-Freeman investigation. It was found to be 1,087 feet above the Willets Point datum, the latter having been fixed by tide observations at Willets Point from 1891 to 1895.

The highest water-table elevation, slightly over 100 feet above sea level, was shown near the Nassau-Suffolk County line between Hicksville and Huntington. However, the contours there were drawn as a succession of short dashes, indicating that some uncertainty was attached to their value or meaning in that area.

On page 811 of the Burr-Hering-Freeman report the following statement is made: "Where these contours are shown as a succession of long dashes, the surface of the ground water is well established; where shown as dotted lines, as on some of the areas covered by the moraine and the thick layers of till on the northerly portion of the island, the location of the surface of the water table is somewhat conjectural, because few existing wells were found there of sufficient depth to reach the true water table and the cost of the necessary wells, some of which would have had to be fully 150 feet in depth, was prohibitive. The surface of the ground water, which is held by the fine compact material forming the moralnes and the layers of till that partially cover the northerly portion of the island, are not shown on this 1903 contour map. Since, in general, it appears that the water from these elevated strata is slowly percolating into the sands and gravels that, as the geologists have shown, underlie the mentle of till, to what might be termed the lower water table, which is the surface shown by the contours. . . The strata between these two saturated layers are, in some localities, completely saturated, the difference between the elevations of the two water tables representing the loss of head through vertical seepage; but in many localities the intervening sands were found to be only partially saturated.

In recent years wells of the requisite depth have been drilled in some of the doubtful areas shown on the 1903 map. The results are given on the contour map accompanying this report (Plate 1). Some of these wells struck water at two levels before the main water table was reached, confirming the observation made in 1903.

The 1903 water-table map of the Burr-Hering-Freeman Commission was republished

with slight modifications by the Geological Survey in 1906 in a report on the ground-water resources of Long Island (6). The location of contours in doubtful areas was again shown by dotted lines.

The western part of the 1903 water-table map, covering Queens and Nassau Counties only, was reproduced in 1912 by the Board of Water Supply of the City of New York in their report on obtaining an additional supply of water for the City of New York from Suffolk County (7).

An extension of the 1903 water-table contours into Brocklyn was made by Wiggin in 1934 in an engineering report on behalf of the New York Water Service Corporation, objectors to the application of the City of New York to the Water Power and Control Commission for additional ground-water supply in Brocklyn, Queens, and Nassau (8). Those contours, which had been terminated at the Brocklyn-Queens boundary, were extended into Brocklyn on the basis of water levels reported by Stoddard (4) in 1854, trunk-sewer invert elevations, and water levels from records of test borings for subway construction. The highest elevation of the water table shown in Brocklyn for 1903 was about 20 feet. Wiggin remarked, "it is probable that a few isolated areas in the high parts of Prospect Park and elsewhwere had higher levels. . " The Burr-Hering-Freeman contours of 1903 were again published in 1937, by the Water Power and Control Commission (11), together with Wiggin's extension of those contours into Brocklyn (8). Comparison was made with water-table contours for 1936.

#### MAP OF 1908 BY BOARD OF WATER SUPPLY, CITY OF NEW YORK

The report of the Board of Water Supply (7) referred to previously is appropriately called the Spear report after Walter E. Spear, at that time Division Engineer of the Board of Water Supply. Under his direction an intensive investigation was made of the ground-water resources of western Suffolk County. The study of ground-water levels was extended eastward to the longitude of Riverhead.

The Spear report contained a map (Vol. 1, sheet 6, opposite p. 108) showing the configuration of the water table on July 1, 1907, in that part of Suffolk County lying west of Riverhead, in addition to the above mentioned water-table map of Queens and Nassau for 1903 (Vol. 1, sheet 1, opposite p. 60) republished from the Burr-Hering-Freeman report. The contour interval was five feet. All elevations were referred to a new datum 1.72 feet below the datum of the Brooklyn Water Department.

General agreement was shown between the Spear map of 1907 of western Suffolk County and the Burr-Hering-Freeman map of 1903 covering the same area. Many of the wells put down during the 1903 investigation were later used by the Board of Water Supply. In addition, about 300 two-inch test wells were driven in the area to augment those wells and other existing wells available for observation.

Caution in the interpretation of the water-table contours in certain areas was again urged in the Spear report, as the following quotations from pages 108 and 109 will show:

"There are but few observations upon the surface of the main water-table beneath the high and compact morainal ridges, and the ground-water contours there are drawn in a general way from the observations in wells outside of these areas. This lack of information in these areas does not appreciably affect the accuracy

of the determination of the ground-water catchment. The few wells in the <u>doubtful area</u> between the Nassau County line and Elwood indicate that the ground-water summit is not far from the surface divide of the southerly moraine."

(Underscoring is ours.)

#### MAP OF 1933 BY WIGGIN

A contour map of the water table in Brooklyn and Queens in May 1933 was presented by Wiggin in connection with hearings before the Water Power and Control Commission on the application by the City of New York already referred to. This was a joint effort by consulting engineers for the objecting water—supply companies and officials of the New York Department of Water Supply, Gas and Electricity. By comparing this map with the 1905 contours and their extension into Brooklyn, Wiggin estimated the amount of water that had been withdrawn from storage in that critical area during the intervening 30 years. Wiggin's map of 1933 was published by Laase (9) in 1934 and by Thompson, Wells, and Blank (10) in 1937.

#### MAP OF 1936 BY NEW YORK STATE WATER POWER AND CONTROL COMMISSION

In Bulletin GW-2 of this series (11), published by the Water Power and Control Commission in 1937, Suter gave a water-table map for 1936 with a five-foot contour interval, covering again the area from Riverhead westward. To obtain the data numerous wells were measured, some of them after relatively short periods of recovery. In many cases it was necessary to estimate elevations from topographic maps ((11), p. 51), but despite this lack of refinement the 1936 contour map was of value in indicating important changes, even in the short period from 1933 to 1936, particularly in the critical area of Brooklyn.

In commenting on the state of knowledge at the time of the hearings on the application of the City of New York in 1933 Suter stated (pp. 48, 50) "All along

the Queens-Nassau County line this Brooklyn overdraft had lowered the groundwater level by many feet. How far into Nassau County that effect went and whether it extended to Suffolk was not then (1933) known. One object of the studies made in 1936 was to fill in this gap, but again perched water-table conditions presented a serious handicap. With the funds available and with the time allotted it was not then possible to drill the necessary deep test holes to determine the true position of the main water table in the center of the island. Suter repeated the warnings given in both the Burr-Hering-Freeman and Spear reports, in the following words: "There is ever present danger that in hills, along the moraines and in disturbed strata generally levels may be taken in wells piercing perched water deposits and so fail to indicate the true upper surface of the main body of ground water." ((11), p. 51). This reservation tempered his summation (p. 50) of the results of the investigation just then completed: "Latest information showed material changes for the worse in the period 1933-1936. Not only has the Brooklyn depression gone down - - as was expected - - but the depressed area has extended far to the east into Queens County. The effects in Nassau County are serious and there can be no doubt but that they extend even into Suffolk, although somewhat masked by the difficulty of avoiding perched water tables in the ranges of hills near the county line." (Underscoring is ours.)

Deep observation wells drilled more recently in that area passed through the perched water tables and reached the main water table. As discussed more fully below, it now appears that the effect of pumping in Brooklyn has not extended to Suffolk County. The apparent decline of the water table at the Nassau-Suffolk County line is attributable first to the fact that the early maps contoured perched water tables, and secondly, to differences in antecedant precipitation.

#### MAP OF 1943 BY GEOLOGICAL SURVEY

Plate 1 is a map of the western and central parts of Long Island showing by contours the configuration of the main water table in May 1943. The contours are drawn with a 10-foot interval on the basis of water-level measurements in 289 shallow wells distributed among the counties as follows:

Agency, or Owner			Co	ounty
	Kings	Queens	Nassau	Suffolk
Nassau Co. Dept. of Public Works	0	0	<b>167</b>	0
New York City Board of Water Supply	0	0	0	28
New York City Dept. of Water Supply	12	25	6	8
New York Water Service Corporation	7	0	0	0
U. S. Geological Survey	0	O	1	20
Industrial or other	9	0	1	5
Totals	28	25	175	61

The table beginning on page 17 gives pertinent data concerning these wells. The State well numbers are those adopted by the New York State Water Power and Control Commission (14) and widely used by other agencies. The same numbers are used in the series of Water-Supply Papers (15) in which complete water-level records for most of the 289 wells are published, most of them going back to the beginning of record. The owner's number is given in many cases to assist in referring to the early records.

Under "Location" are given addresses or nearest street intersections, though in many cases merely the localities are given. The depth of the well means the total depth measured inside the casing from the top. The top of the casing is generally within about a foot of the ground surface, except as noted under

#### "Remarks."

The tabulated water-level elevations are based mostly on measurements made near the end of May 1943. The more recently completed wells in Suffolk County were measured in June 1944. At the end of that month the water table over most of Long Island, as shown in other representative shallow wells, was generally at about the same level as it was at the end of May 1943.

Water levels in supply wells of the New York Water Service Corporation in Flatbush, Brooklyn, were taken from testimony of Thomas H. Wiggin, Consulting Engineer, given at a hearing before the Water Power and Control Commission. In some cases these are static levels of wells in service.

All elevations given in the table refer to mean sea level. The elevations of measuring points on the well casings have been determined by differential leveling done by the Geological Survey. The general order of significance of the water-table elevations is indicated on the map, most of the elevations being given to the nearest tenth of a foot. Water levels determined at another time than at the end of May 1943 are given to the nearest foot only.

Where the density of wells is adequate the contours are drawn as full lines. Where information is lacking or where there is some uncertainty as to its interpretation, the contours are drawn as broken lines. No attempt has been made to draw in the contours below the 60-foot contour in northern Nassau County because many of the wells in that area undoubtedly reach only to perched water tables. That is true, for example, of wells N 1171 and N 1172.

There is a large area in northwestern Suffolk County in which there are few shallow observation wells. The provisional dashed contours there should be regarded only as suggestive of the general shape of the main water table in that area. Farther to the east, between Lake Ronkonkoma and Carman's River, the coverage is better, particularly along two recently completed profiles

(sections H-H' and I-I').

In drawing contours along the south shore of Suffolk County the 1908 map by the Board of Water Supply was used as a guide, allowance being made for the general decline of water levels that is known to have occurred since that time (16). Also allowance was made for the difference in datum planes.

No contours are shown for that area in Queens County lying north of the terminal moraine, except for the zero contour. This contour encircles the center of heavy pumpage in the Woodhaven area and separates the high area of north Queens from the low area in Brooklyn. At two "stagnation points" it intersects the closed zero contour that completely encircles the island along its shore. One of these points is on Jamaica Bay and the other assumedly on Newtown Creek. A similar zero contour separates the high area of Gravesend from the rest of Brooklyn.

Perhaps the most striking difference between the map on plate 1 and earlier water-table contour maps of Long Island is the configuration of the high in Nassau County. The maximum elevation of the main ground-water table in Nassau County in May 1945 was about 85 feet, or approximately 15 feet lower than shown on the 1905 contour map. Furthermore, the high point in 1943 was about 5 miles west of its position according to the 1903 map. However, it must be kept in mind that on the 1903 map the contours in that area were drawn as dotted lines, indicating that the position of the true water table was conjectural, as pointed out above (p. 10). Comparison of the two water tables is best seen on section G-G', plate 2. Section F-F' shows the same divergence of levels, though to a lesser degree.

Differences in average elevation of the water table in 1903 and 1943 as shown on the other sections of plate 2 is attributable partly to differences in precipitation. A recent study (16) of early water levels and precipitation and

their long-term correlation shows that in 1890 or about that year the water table was at its highest stage since 1850. A secondary high was reached in 1903. On the basis of precipitation data it is estimated that in Nassau and western Suffolk Counties the water table should have averaged about four or five feet lower in 1943 than in 1903. The profiles of plate 2 show approximately that much difference in the stage of the water table at the beginning and end of this 40-year period.

Another significant difference between the present contour map and earlier maps is in the shape and extent of the water-table depression in Brooklyn and western Queens. The probable original shape of the water table in Brooklyn is indicated on section A-A' on plate 2, which is based on Wiggin's extension of the 1903 contours (8). The decline that has occurred there is the result of pumping for industrial purposes and for public water supplies (17). In the early years of the ground-water development in Brooklyn the decline was gradual. In recent years it has been accelerated and the water-table depression has expanded. A comparison of the 1953 and 1936 contour maps shows that the water table in parts of Brooklyn and Queens declined rather sharply during that three-year period. Since 1936 there has been only a small net decline, although the depression has continued to expand. In general, low water levels were reached about 1941. Since then there has been a slight recovery of water levels in the area of most concentrated pumping.

Referring to section B-B' on plate 2, it is seen that in 1943 the water table was lower everywhere along that section than it was in 1903. Part of that difference in levels is due to the difference in average rates of precipitation before 1903 and before 1943, which was discussed above. However, the major part of the difference in water levels there is due to the pumping distributed over the area adjacent to that section ( (17), fig. 6).

In view of the relative nearness of the center of heavy pumping in Brooklyn

to the East River, it is not likely that the effect of that pumping reaches very far into Queens. As the water table hinges on the tidewater in the nearby channels, any transient state of flow set up by a change in the rate of pumping in that area soon degenerates into a new steady state of flow without affecting appreciably the water levels at comparably greater distances in the opposite direction.

Nothwithstanding the evident overdraft in Brooklyn and in parts of Queens, the ground-water resources of Long Island as a whole are still not fully utilized. The potential supply in the central and eastern parts of the island is tremendous. ((11), p. 32). Through proper development it may be used for municipal, industrial and agricultural purposes on a scale that has scarcely been anticipated.

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Romarks	Well in besement; top of casing about 6 ft. below street.	Well in pit; top of eacing 4.5 it. below ground surface.	Well in pit in besoment; top of casing 59.6 ft. below street.	Well in pit in basement; top of casing 71.5 ft. below street.	Well in building; top of casing about 2 ft. below street.	Well in pit in besenent; top of easing about 72 it. below street.	Well in building; top of casting about 7 ft. above street.	Water level reported by Thos. H. Wiggin.	Top of well about 4.8 ft. below ground surface.	Water level reported by Those He Wiggine	do.	φ	ф		Well in trench; top of easing about 5 ft. below ground surface.	Well in basement; top of ossing 10.5 ft. below ground.	Well in building; top of casing about 2 ft. above street.										•	Well in basement; top of casing about 14 ft. below street.										
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n f Hater Elevation (feet)	8.73	8.65.	7.8.5	-21.6	8.43	-25.4	-5.1	<b>†</b>	Z*6-	9.8	-15.5	8.3-	-1000	₹° 22-	+2+4	7.0	-25.8	1 10 8 10	-16.0	-9.1	-17.8	-54.0	-10.4	-1404	-10.6	-5.9	4.4.	\$000-	0°98	44.1	54.8	55.6	56.7	54.4	2° 77	29°6	27.4	20.5
Elevation of top of casing (feet)	12,00	12°84	7.55	64.4	62.25	#1 10 10	79.68	46.85	10.90	19.81	48.92	58,02	25,52	42,58	14.09	39° 33	117.88	26,90	48.62	60.47	50,91	18.02	55.87	45,89	23.22	27,68	8,50	26.26	218.68	49,86	165,82	146,12	125.57	108.20	66.41	70,12	42.54	50,85
Depth (feet)	22	59.1	50.7	988.6	120	* <del>1</del> 8*	157.8	102.5	101	108.5	120	\$6.28	8	292	85.5	52.7	<b>384</b>	55.4	75.6	19.4	81.7	8.50	48.7	968	4.5.B	41.4	90 90 90 90 90 90 90 90 90 90 90 90 90 9	57.8	200	56.6	14040	180.8	76.6	81.4	57.2	47.	57.5	27.5
Diameter (inches)	œ	œ	æ	ω	œ	30	2	35	92	72	<b>7</b> 8	88	28	œ	Ø	4	ន	- <b>K</b> 0	Ť	~	**	13	-Re-	4	智	#	લ	\$	•	걁	***	es.	ca	Ož	ተ	₹7	শ্ৰ	**
Location	Park and Nostrand Avenues, Brooklyn	125 Middleton St., Brooklyn	179 Marcy Ave., Brooklyn	75 Lewis Ave., Brooklyn	52 Lexington Ave., Brooklyn	796 Fulton St., Brooklyn	12th Ave. and 57th St. Brooklyn	865 Dahill Road, Brooklyn	E. Slet St. near Hewkirk Ave., Brooklyn	Alberr Ave. and Foster Ave., Brooklyn	807 Caton Ave., Brooklyn	885 MoDonald Ave., Brooklyn	1267 Utica Ave., Brooklyn	E. 98th St. mear Rutland Road, Brooklyn	Ave. S and E. 16th St., Brooklyn	Atlantic Ave. and Logan Sto, Brooklyn	Grand and St. Marks Aves., Brooklyn	Cleveland and Fulton Sts., Brooklyn	Jefferson and Howard Aves., Brooklyn	Fulton St. and Pennsylvania Ave., Brooklyn	Lexington and Patchen Aves., Brooklyn	Deliaonico Fl. and Hopkins St., Brooklyn	E. 16th St. and Cortelyon Rd., Brooklyn	E. 57th St. and Snyder Ave., Brooklyn	Thatford St. and Riverdale Ave., Brooklyn	Vermont St. and Livonia Ave., Brooklyn	Blake Ave, and Grystal St., Brooklyn	Defailb Ave. and Fulton St., Brooklyn	Cedar Swamp Road., Wheatley Hills	Valley Rd., near Willets Rd., Wanhasset	Willets and Valley Rds., Lake Success	Marous Ave. and Lakeville Rd., Lake Success	Both Ave. near Rhodes St., New Hyde Park	Emerson and Whittier Aves., New Hyde Park	Kingston Ave. and Bertha St., So. Floral Park	Jacob St. and Rosalind Ave., Elmont	Dutch Breachesy and Henry Sto., Elmont	Henry Street, No. Valley Stream
Ompet	C. J. Tagliabue Co.	A. Indwig Co.	Y. M. C. A.	St. John's Univ.	The Borden Co.	qo	Knick. Ice Co.	N. Y. W. S. C.	-8	ф	ş	-8	ક	ę	M. Y. C. D. W. S.	Ą	Byrndun Corp.	N. I. C. D. W. S.	ફ	<del>op</del>	8	ન્ફ	ę	육	ş	용	Ą	Albes Theatre	J. N. Hill	N. C. D. P. W.	ę	ф	do	op	Ð	Ą	ф	ф
Well Number the Owner's	[	ot.					rl	pri jes	ot Pu	<b>₹</b>	<b>6</b> 0	F 15	¥ 14		Grave.l															D J	23	ន	7 4	D 5	D 7	D 8	D 3	D 10
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Level.		May 28, 1943	May 29, 1945	May 28, 1945	ф	ф	ф	ą	ф	ş	Q.	op op	-8	કુ	ф	May 29, 1945	May 28, 1945	48	æ	db	do	May 29, 1945	May 28, 1945	May 51, 1945	op	qo	ф	ф	do	op op	op	Ор	φ	do	ф	op	op op	da	20 100 m
Water Level Elevation Date	(feet)	14.2	8.4	6.1	10.2	10.9	4.7	90.4	118.0	57.8	61.04	65.1	66.3	8.4.8	82.5	57,8	52.7	9*27	51.67	21.6	15.4	8.4	10 4	27.68	89	69.7	74.2	72.6	64.49	61.0	54.5	45.8	55 55 69	58.1	27.7	24.7	18.1	2.9	
Elevation of top of casing		20,44	15.44	10.46	24,00	22,88	18.51	152,06	154.20	117.57	220.05	178.99	144.55	109.93	98,36	86.74	75,15	65,05	50,90	57.51	24.41	20,87	10,05	39.04	144.27	125,81	107,51	104.57	102,96	91.54	76.58	61.92	55,11	46.85	40.16	57.76	27.52	21.21	Ş
Depth	(feet)	27.5	22.	25. 25.	51.4	19.7	\$8°£	151.2	145.0	<b>94.</b> 7	177.9	159.0	95.9	59.9	48.8	<b>7*67</b>	58,1	58.5	28.4	55.4	28.5	27.1	25.4	85.5	87.5	8.58	48.8	48,5	59.1	42.5	32.5	55,6	34.5	81.9	27.6	80 80 80	25.4	27.5	
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	Location	Fletcher and Teneyck Aves., Valley Stream	Suntse Highway and 2nd St., Valley Stream	DuBois Ave. and Drew St., Gibson	W. Broadway and Hamilton Ave., Hewlett	Wood St. and Brower Ave., Woodmere	On Fraser property, Sands Point	Harbor Acres, Port Washington	Port Washington	Flower Hill	Stratimore Village	North Hills	Berricks	Garden City Park	Garden City Park	Steward Ave. and Sackville Rd., Garden City	Kimson	Munson	Lakeview	Malverne	Malverne	Sunrise Hwy., and Lakewood Blvd., Lynbrook	East Rocksmay	Roslyn	Roslyn	Albertson	Williston Park	Mineola.	Garden City	Kellum Fl. and 9th St., Garden City	Garden City	Hampstend	Hempstead	South Hempstead	Rockville Centre	Rockville Gentre	Seemen Ave. near Knollwood Rd., Baldwin	Baldwin	, P.
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25 100.05 17.0 0  25 100.05 1</td><td>14 26.2 34.06 25.5 kWy 20,  15 150.4 154.05 51.4 0.4  16 150.4 154.05 51.4 0.4  17 150.4 154.05 51.4 0.4  18 151.9 121.6 61.1 0.4  19 151.9 156.09 76.8 0.4  19 151.9 156.09 76.8 0.4  19 151.9 156.09 76.8 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 12.4  19 151.9 12.4  10 151.9</td><td>14 28.2 84.05 25.5 kWy 25.  15 180.4 154.05 25.5 kWy 25.  16 180.4 154.05 25.5 kWy 25.  17 180.4 156.05 25.5 kWy 25.  18 18.9 141.2 170.65 64.0 26.  19 18.9 141.2 170.65 77.7 26.  19 18.9 141.2 170.65 77.7 26.  19 18.9 14.0 111.2 77.7 26.  19 18.9 14.0 111.2 77.7 26.  19 18.9 14.0 111.2 77.7 26.  19 18.9 14.0 111.2 77.7 26.  19 18.9 14.0 111.2 77.1 26.  19 18.9 14.0 111.2 77.1 26.  19 18.9 14.0 111.2 111.2 27.1 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  20 20.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27</td><td>14 28.2 84.06 25.5 184 28. 184</td><td>14 26.2 84.06 25.5 149 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,</td><td>14 26.2 54.05 25.5 18.9 28.9  15 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15</td><td>14 26.2 54.05 25.3 May 26.5  15 150.4 156.05 25.5 May 26.5  15 150.4 150.5 150.4 16.5  15 150.4 110.6 110.6 110.6 110.6 110.6 110.6 110.6 110.6  15 150.4 110.6</td><td>14 18.0.2 54.06 525.3 kg 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,</td><td>14 26.2 54.05 22.3 189 22.3  15 22.5 12.2 6</td><td>14 25.2 54.06 22.5 18.9 25.  15 25.2 12.60 21.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5</td><td>14 25.2 84.06 22.5 19, 26, 19, 26, 19, 26, 19, 26, 19, 26, 19, 26, 19, 26, 22, 22, 22, 22, 22, 22, 22, 22, 22</td><td>14 1804 11240 1204 1204 1204 1204 1204 1204 1</td><td>14 1504 154,05 255, 1847 25,
1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1847 25, 1</td><td>1 150. 150. 150. 150. 150. 150. 150. 150</td></td> | 14     26.2     54.05     25.5     160.4     154.05     25.5     160.4     25.5     160.4     25.5     160.4     25.5     160.4     25.5     160.4     25.5     25.5     25.4     25.5     25.4     25.5     25.5     25.4     25.5 </td <td>14       26.2       54.05       25.5       160.4       25.5       164.05       25.5       160.4       25.5       160.4       25.5       160.4       25.5</td> <td>14       26.2       54.05       25.5       16.4       15.4</td> <td>14       26.2       54.05       25.5       16.4       15.4</td> <td>4       156.2       54.05       25.5       164.05       15.4</td> <td>4       150.4       54.05       55.4       189       28         8       150.4       150.4       154.05       51.4       4       60.4         8       141.2       178.65       64.0       7       4       60.5       7       6         8       4       229.9       260.50       75.0       7       6</td> <td>14 26.2 54.06 25.5 18.7 28, 28, 28, 28, 28, 28, 28, 28, 28, 28,</td> <td>14 26.2 54.05 25.5 18.9 28,  4 150.4 154.05 25.5 18.4 28,  1 150.4 154.05 51.4 0 0  24 150.4 154.05 51.4 0 0  24 140.2 176.65 61.5 0 0  24 120.6 176.6 0 0  25 140.2 176.6 0 0  26 15 16 0 0  27 17 115.9 176.0 0  28 10.2 17.7 0 0  29 14 115.9 170.2 177.1 0  20 14 115.9 170.2 177.1 0  20 14 156.0 176.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 156.0</td> <td>14 26.2 84.05 25.5 May 28, 28, 28, 28, 28, 28, 28, 28, 28, 28,</td> <td>14 156.2 54.05 25.5 May 28, 150.4 150.4 150.4 150.5 150.5 May 28, 150.4
150.4 150.4</td> <td>14 26.2 84.06 25.5 May 28, 15.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0</td> <td>14 180.4 18405 2840 185.5 140 180 180 180 180 180 180 180 180 180 18</td> <td>14 26.2 54.05 25.3 149 28.  4 150.4 150.4 154.05 51.4 0  24 150.4 154.05 51.4 0  24 150.4 154.05 51.4 0  24 120.5 171.6 64.0 0  25 141.2 176.6 64.0 176.0 0  26 141.2 176.6 64.0 176.0 0  27 120.5 176.1 120.0 0  28 11.2 120.6 176.0 0  29 12.4 120.2 176.0 0  20 12.4 120.2 176.1 120.0 0  20 12.4 120.2 176.1 120.0 0  20 12.4 120.5 176.1 120.0 0  21 12.5 120.5 176.1 120.0 0  21 12.5 120.5 176.1 120.0 0  21 12.5 120.5 120.5 120.0 0  21 12.5 120.5 120.5 120.0 0  21 12.5 120.5 120.5 120.0 0  21 12.5 120.5 120.5 120.0 0  21 12.5 120.5 120.5 120.0 0  22 12.5 120.5 120.5 120.5 120.0 0  23 12.5 120.5</td> <td>14 26.2 54.05 25.5 140 120  4 150.4 154.05 51.4 10  24 150.4 154.05 51.4 10  24 120.6 11.6 51.4 10  4 120.6 11.6 51.7 10  24 120.9 120.6 51.4 10  25 14.1 115.9 170.2 17.1 10  26 15.4 170.2 170.1 10  27 15.4 111.8 170.2 170.1 10  28 15.4 150.4 170.2 170.1 10  29 14 150.4 170.2 170.1 10  29 15.4 150.5 170.1 10  29 15.4 150.5 170.1 10  29 15.4 150.5 170.5 10  20 12.4 150.5 170.5 10  20 12.4 150.5 170.5 10  20 12.4 170.5 110.5 10  20 12.4 170.5 170.5 10  20 12.4 170.5 110.5 10  20 12.4 170.5 110.5 10  20 12.4 170.5 110.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170  20 12.4</td> <td>14 26.2 84.06 25.5 16.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0</td> <td>14 26.2 84.05 25.5 My 20,  4 150.4 150.4 154.05 61.4 0.0  24 150.4 154.05 61.4 0.0  25 141.2 176.66 61.5 0.0  26 25.0 121.66 61.5 0.0  27 141.2 176.65 61.4 0.0  28 141.2 176.65 77.7 0.0  29 14 120.9 156.08 77.0 0.0  29 14 120.9 156.08 77.7 0.0  29 15 11.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.</td> <td>14 26.2 54.05 25.5 My 20.  4 150.4 154.05 62.5 My 20.  24 150.4 154.05 61.4 0.  24 150.4 154.05 61.4 0.  24 229.9 280.50 77.0 0  24 108.9 170.85 64.0 0  24 108.9 170.85 77.0 0  24 108.9 170.85 77.0 0  24 108.9 170.85 77.0 0  24 108.9 170.85 77.0 0  24 289.7 111.22 77.0 0  24 26.2 26.2 44.9 0  24 26.2 26.2 44.9 0  24 26.2 26.4 0  24 26.5 26.2 26.4 0  24 26.5 26.2 26.4 0  24 26.5 26.4 0  24 26.5 26.2 26.4 0  24 26.5 26.2 26.4 0  24 26.5 26.2 26.4 0  24 26.5 26.4 0  24 26.5 26.4 0  24 26.5 26.4 0  25 26.4 0  26 26.4 0  26 26.4 0  27 26.0 0  28 26.4 0  28 26.</td> <td>14 26.2 34.06 25.5 My 20,  4 150.4 154.05 62.5 My 20,  24 150.4 154.05 61.4 0  24 150.4 154.05 61.4 0  24 229.9 260.50 77.0 0  24 105.9 170.25 77.0 0  24 105.9 170.25 77.0 0  24 105.9 170.25 77.0 0  24 105.9 170.25 77.0 0  24 105.9 170.25 77.0 0  24 105.4 150.05 77.0 0  24 105.4 150.05 77.0 0  24 105.4 150.05 77.0 0  24 105.4 150.05 77.0 0  24 105.4 150.05 17.0 0  24 105.4 150.05 17.0 0  24 105.4 150.05 17.0 0  24 105.4 150.05 17.0 0  24 105.4 100.05 17.0 0  24 105.8 100.05 17.0 0  25 100.05 1</td> <td>14 26.2 34.06 25.5 kWy 20,  15 150.4 154.05 51.4 0.4  16 150.4 154.05 51.4 0.4  17 150.4 154.05 51.4 0.4  18 151.9 121.6 61.1 0.4  19 151.9 156.09 76.8 0.4  19 151.9 156.09 76.8 0.4  19 151.9 156.09 76.8 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19
151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 12.4  19 151.9 12.4  10 151.9</td> <td>14 28.2 84.05 25.5 kWy 25.  15 180.4 154.05 25.5 kWy 25.  16 180.4 154.05 25.5 kWy 25.  17 180.4 156.05 25.5 kWy 25.  18 18.9 141.2 170.65 64.0 26.  19 18.9 141.2 170.65 77.7 26.  19 18.9 141.2 170.65 77.7 26.  19 18.9 14.0 111.2 77.7 26.  19 18.9 14.0 111.2 77.7 26.  19 18.9 14.0 111.2 77.7 26.  19 18.9 14.0 111.2 77.7 26.  19 18.9 14.0 111.2 77.1 26.  19 18.9 14.0 111.2 77.1 26.  19 18.9 14.0 111.2 111.2 27.1 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  20 20.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27</td> <td>14 28.2 84.06 25.5 184 28. 184</td> <td>14 26.2 84.06 25.5 149 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,</td> <td>14 26.2 54.05 25.5 18.9 28.9  15 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15</td> <td>14 26.2 54.05 25.3 May 26.5  15 150.4 156.05 25.5 May 26.5  15 150.4 150.5 150.4 16.5  15 150.4 110.6 110.6 110.6 110.6 110.6 110.6 110.6 110.6  15 150.4 110.6</td> <td>14 18.0.2 54.06 525.3 kg 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,</td> <td>14 26.2 54.05 22.3 189 22.3  15 22.5 12.2 6</td> <td>14 25.2 54.06 22.5 18.9 25.  15 25.2 12.60 21.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5</td> <td>14 25.2 84.06 22.5 19, 26, 19, 26, 19, 26, 19, 26, 19, 26, 19, 26, 19, 26, 22, 22, 22, 22, 22, 22, 22, 22, 22</td> <td>14 1804 11240 1204 1204 1204 1204 1204 1204 1</td> <td>14 1504 154,05 255, 1847 25, 1</td> <td>1 150. 150. 150. 150. 150. 150. 150. 150</td> | 14       26.2       54.05       25.5       160.4       25.5       164.05       25.5       160.4       25.5       160.4       25.5       160.4       25.5   
   25.5       25.5 | 14       26.2       54.05       25.5       16.4       15.4 | 14       26.2       54.05       25.5       16.4       15.4 | 4       156.2       54.05       25.5       164.05       15.4 | 4       150.4       54.05       55.4       189       28         8       150.4       150.4       154.05       51.4       4       60.4         8       141.2       178.65       64.0       7       4       60.5       7       6         8       4       229.9       260.50       75.0       7       6 | 14 26.2 54.06 25.5 18.7 28, 28, 28, 28, 28, 28, 28, 28, 28, 28, | 14 26.2 54.05 25.5 18.9 28,  4 150.4 154.05 25.5 18.4 28,  1 150.4 154.05 51.4 0 0  24 150.4 154.05 51.4 0 0  24 140.2 176.65 61.5 0 0  24 120.6 176.6 0 0  25 140.2 176.6 0 0  26 15 16 0 0  27 17 115.9 176.0 0  28 10.2 17.7 0 0  29 14 115.9 170.2 177.1 0  20 14 115.9 170.2 177.1 0  20 14 156.0 176.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 15 156.0 0  21 156.0 | 14 26.2 84.05 25.5 May 28, 28, 28, 28, 28, 28, 28, 28, 28, 28,   | 14 156.2 54.05 25.5 May 28, 150.4 150.4 150.4 150.5 150.5 May 28, 150.4 | 14 26.2 84.06 25.5 May 28, 15.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0               | 14 180.4 18405 2840 185.5 140 180 180 180 180 180 180 180 180 180 18                   | 14 26.2 54.05 25.3 149 28.  4 150.4 150.4 154.05 51.4 0  24 150.4 154.05 51.4 0  24 150.4 154.05 51.4 0  24 120.5 171.6 64.0 0  25 141.2 176.6 64.0 176.0 0  26 141.2 176.6 64.0 176.0 0  27 120.5 176.1 120.0 0  28 11.2 120.6 176.0 0  29 12.4 120.2 176.0 0  20 12.4 120.2 176.1 120.0 0  20 12.4 120.2 176.1 120.0 0  20 12.4 120.5 176.1 120.0 0  21 12.5 120.5 176.1 120.0 0  21 12.5 120.5 176.1 120.0 0  21 12.5 120.5 120.5 120.0 0  21 12.5 120.5 120.5 120.0 0  21 12.5 120.5 120.5 120.0 0  21 12.5 120.5 120.5 120.0 0  21 12.5 120.5 120.5 120.0 0  22 12.5 120.5 120.5 120.5 120.0 0  23 12.5 120.5
120.5 | 14 26.2 54.05 25.5 140 120  4 150.4 154.05 51.4 10  24 150.4 154.05 51.4 10  24 120.6 11.6 51.4 10  4 120.6 11.6 51.7 10  24 120.9 120.6 51.4 10  25 14.1 115.9 170.2 17.1 10  26 15.4 170.2 170.1 10  27 15.4 111.8 170.2 170.1 10  28 15.4 150.4 170.2 170.1 10  29 14 150.4 170.2 170.1 10  29 15.4 150.5 170.1 10  29 15.4 150.5 170.1 10  29 15.4 150.5 170.5 10  20 12.4 150.5 170.5 10  20 12.4 150.5 170.5 10  20 12.4 170.5 110.5 10  20 12.4 170.5 170.5 10  20 12.4 170.5 110.5 10  20 12.4 170.5 110.5 10  20 12.4 170.5 110.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170.5 110  20 12.4 170  20 12.4 | 14 26.2 84.06 25.5 16.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0   | 14 26.2 84.05 25.5 My 20,  4 150.4 150.4 154.05 61.4 0.0  24 150.4 154.05 61.4 0.0  25 141.2 176.66 61.5 0.0  26 25.0 121.66 61.5 0.0  27 141.2 176.65 61.4 0.0  28 141.2 176.65 77.7 0.0  29 14 120.9 156.08 77.0 0.0  29 14 120.9 156.08 77.7 0.0  29 15 11.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1. | 14 26.2 54.05 25.5 My 20.  4 150.4 154.05 62.5 My 20.  24 150.4 154.05 61.4 0.  24 150.4 154.05 61.4 0.  24 229.9 280.50 77.0 0  24 108.9 170.85 64.0 0  24 108.9 170.85 77.0 0  24 108.9 170.85 77.0 0  24 108.9 170.85 77.0 0  24 108.9 170.85 77.0 0  24 289.7 111.22 77.0 0  24 26.2 26.2 44.9 0  24 26.2 26.2 44.9 0  24 26.2 26.4 0  24 26.5 26.2 26.4 0  24 26.5 26.2 26.4 0  24 26.5 26.4 0  24 26.5 26.2 26.4 0  24 26.5 26.2 26.4 0  24 26.5 26.2 26.4 0  24 26.5 26.4 0  24 26.5 26.4 0  24 26.5 26.4 0  25 26.4 0  26 26.4 0  26 26.4 0  27 26.0 0  28 26.4 0  28 26. | 14 26.2 34.06 25.5 My 20,  4 150.4 154.05 62.5 My 20,  24 150.4 154.05 61.4 0  24 150.4 154.05 61.4 0  24 229.9 260.50 77.0 0  24 105.9 170.25 77.0 0  24 105.9 170.25 77.0 0  24 105.9 170.25 77.0 0  24 105.9 170.25 77.0 0  24 105.9 170.25 77.0 0  24 105.4 150.05 77.0 0  24 105.4 150.05 77.0 0  24 105.4 150.05 77.0 0  24 105.4 150.05 77.0 0  24 105.4 150.05 17.0 0  24 105.4 150.05 17.0 0  24 105.4 150.05 17.0 0  24 105.4 150.05 17.0 0  24 105.4 100.05 17.0 0  24 105.8 100.05 17.0 0  25 100.05 1 | 14 26.2 34.06 25.5 kWy 20,  15 150.4 154.05 51.4 0.4  16 150.4 154.05 51.4 0.4  17 150.4 154.05 51.4 0.4  18 151.9 121.6 61.1 0.4  19 151.9 156.09 76.8 0.4  19 151.9 156.09 76.8 0.4  19 151.9 156.09 76.8 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 77.1 0.4  19 151.9 121.2 12.4  19 151.9 12.4  10 151.9 | 14 28.2 84.05 25.5 kWy 25.  15 180.4 154.05 25.5 kWy 25.  16 180.4 154.05 25.5 kWy 25.  17 180.4 156.05 25.5 kWy 25.  18 18.9 141.2 170.65 64.0 26.  19 18.9 141.2 170.65 77.7 26.  19 18.9 141.2 170.65 77.7 26.  19 18.9 14.0 111.2 77.7 26.  19 18.9 14.0 111.2 77.7 26.  19 18.9 14.0 111.2 77.7 26.  19 18.9 14.0 111.2 77.7 26.  19 18.9 14.0 111.2 77.1 26.  19 18.9 14.0 111.2 77.1 26.  19 18.9 14.0 111.2
111.2 27.1 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  19 18.9 14.0 11.5 27.4 26.  20 20.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27 | 14 28.2 84.06 25.5 184 28. 184 | 14 26.2 84.06 25.5 149 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,   | 14 26.2 54.05 25.5 18.9 28.9  15 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15   | 14 26.2 54.05 25.3 May 26.5  15 150.4 156.05 25.5 May 26.5  15 150.4 150.5 150.4 16.5  15 150.4 110.6 110.6 110.6 110.6 110.6 110.6 110.6 110.6  15 150.4 110.6 | 14 18.0.2 54.06 525.3 kg 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,   | 14 26.2 54.05 22.3 189 22.3  15 22.5 12.2 6  | 14 25.2 54.06 22.5 18.9 25.  15 25.2 12.60 21.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5  | 14 25.2 84.06 22.5 19, 26, 19, 26, 19, 26, 19, 26, 19, 26, 19, 26, 19, 26, 22, 22, 22, 22, 22, 22, 22, 22, 22  
   | 14 1804 11240 1204 1204 1204 1204 1204 1204 1  | 14 1504 154,05 255, 1847 25, 1   | 1 150. 150. 150. 150. 150. 150. 150. 150   |

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Remarks																		r wc11.																					
																		Recorder well.																					
Level. Date	May 27, 1945		ą	qo	qp	ą	op	ą	Ą	ş	용	÷	ą	ę	op	ફુ	용	ક	q	ફ	Ą	ą	ę	op	ရ	ą	Ą	Ą	ą	Ą	육	ģ	ą	ક	ą	9	May 27, 1945		đo
Water Lavel Elevation Date (feet)	π 3°98		74.5	66.7	59.8	50.7	42.1	\$55.4	25.0	11,5	1,8	8 0	**22	45,1	108.4	95.6	75.4	84.6	84.7	80.5	75.2	65.7	57.5	51.8	<b>62.5</b>	20*0	20°6	8.0	00 81	5.7	8.0	24.9	49.9	65.2	75.2	8 <b>1.</b> 8	78.6		69.2
Elevation of top of casing (feet)		124.87	116.62	100,84	88.95	69.61	55,07	44.62	27,29	21.47	92°8	8°63	22,55	59,1.7	146,21	188.25	217.25	228,21	175,18	148,68	115.47	104.45	76.94	76,15	57,06	44.05	\$2,18	21,18	60,0	25.41	8.51	55.74	171.46	225.TT	251.50	174.56	142,72	111.60	95,19
Depth (feet)		67.9	61.0	<b>51.</b> •7	47.5	87.J	50.7	28.4	25.5	28.6	28.5	80.5	25.7	50.7	67.7	159.6	156,0	184.4	108,5	79.6	55.6	55.8	52.4	41.6	28.5	22.5	28.5	28.5	25.5	1	19.9	62,5	184.1	178,8	201.5	144.5	88	54.5	58.7
Diameter (inches)	-kn či	참	Ħ	4	**	÷	4	*	শ	4	**	41	ťť	14	48	/#	ŧ	4	-4ra	4	14	47	캎	**	<del>-</del>	4	건	샵	갂	갹	#	41	₹	4	4	-4ct	rde CV	~#R	4
Location	Hickeville	9	· op	Newtortige Road, So. of Hicksville	East Meadow	Morth Bellmore	North Bellmore	ą	Веллиоте	Harris Court and John Street, Bellmore	Bellmore	Beyville	Oyster Bay	<del>Q</del>	Kast Norwich	op Op	Syckeet	Jericho Turnpike, Locust Grove	Hicksville	do	Bloomingdale Road and Broadway, Hickswille	Central Blvd., Central Park	Island Trees	Jernselem	North Wantagh	Seaford	op	Cecella Flace and John Street, Seaford	South Massapequa	Cove Neck	-9-	op	Oyster Bay Cove	Syoseet	op	Plaintew	do	Plainview Road and Plain Hay Path, Plainview	Plainview Road and Motor Parkway, Bethpage
i sello	N. C. D. P. W.	ģ	op	op	ş	ş	-8	ş	ą	용	-3	do	ş	ş	Ą	-8	-96	Ą	셯	ક	8	-8	Ş	ą	<del>Q</del>	độ	op	-8	do do	-8	<b>q</b> o	ф	q	육	op	දි	qo	ф	<del>op</del>
mber Omer's	о О	07.0	0 11	0 12	31.0	0 14	91 0	0 16	0 17	ar o	6T 0	다 요	e.	ж <b>о</b> Д.	<b>₽</b>	<b>1.0</b>	eo Pr	ь 4	<b>65</b> 24	On Su	P 10	ii 4	P 12	P 18	P 14	9 16	P 16	P 17	P 18	ri E	<b>4</b>	<b>₩</b> 7	€+ <b>4</b>	ro E4	8	4	<b>в</b>	os Eu	r ic
Well Number State Omner	36TT N	N 1196	N 1197	N 1198	8 1188	N 1200	N 1201	N 1202	N 1208	N 1204	N 1205	N 1206	N 1207	N 1206	803T N	N 1210	LIST N	N 1212	N 1213	N 1214	n 1215	N 1216	N 1217	N 1218	N 1218	N 1220	N 1221	N 1222	N 1228	N 1224	N 1225	N 1226	N 1227	N 1228	N 1229	N 1250	N 1251	N 1252	N 1255

			and designation of the formal processing the state of the formal processing the state of the sta			Elevation of ton of	Water	Level	
Well Number State Owne	unber Owner's	Owner	Location	Dismeter (inches)	Depth (feet)	casing (feet)	Elevation Date (feet)	Date	Вещатка
N 1234	11 11	N G. D. P. W.	Platnview Road, Central Park	참	65.3	101,13	62.2	May 27, 1945	
N 1255	T 12	qp	Farmingdale	샴	54.5	72,15	58.7	පි	
N 1256	T 13	c <sub>f</sub> o	North of Massapeque Centre	存	44.5	70.46	45.4	qo	
N 1257	T 14	ę <b>ę</b>	Massapequa Centre	꺔	54.2	55.95	37.6	ф	
N 1258	T 1.5	op	Иввередия	14	28.6	40,54	29.1	qo	
N 1259	T 16	do	Massapequa Park	7	28.5	50,44	19,0	qo	
N 1240	T 17	φ	ManhattanAvenue, Massapequa Park	Ħ	28.2	23.00	10.7	qo	
N 1241	T 18	ф	South of Massapeque Park	47.	25.7	7,40	4.4	ą	
N 1242	1 1	ફ	North Hempstead Turnpike, Cold Spring Harbor	샵	51.1	41.08	26.6	ą	
N 1243	23 D	Ą	Velsor-Stillwell Road, Cold Spring Harbor	꺔	16,0	64.61	55.5	ဝွ	
N 1244	n s	କୃଷ୍ଣ ,	Jericho Turnpike and Avery Road, Syosset	4	259.0	248,89	71.7	કુ	
N 1245	Φ Φ	op o	Plainview Road, Plainview	-to	202,5	259,95	76.8	ф	
N 3246	U SI	do	Plainview-Melville Road, Plainview	4	124.7	186,10	78.1	qo	
N 1247	9 A	ф	Near Motor Parkney, Bethpage	14	109.5	157,15	72.1	q	
N 1249	8 D	qo	Secatoque Avenue and Wall Street, Farmingdale	Ŧ	34.0	67.84	58.5	දි	
N 1250	8 D	ð	Old Carmans Road, Farmingdals	1,	55 55 50 50 50 50 50 50 50 50 50 50 50 5	62,24	46.5	නු	
N 1261	U 10	ф	County Line Road, Farmingdale	Ħ	28,7	48,85	58.8	æ	
N 1252	ת מ	ę	County Line Road and Smuth Street, Amityville	14	25.5	29,81	25.5	ф	
N 1265	U 12	do	Glocks Blvd. and Pine Street, Amityville	存	28,7	28,48	15.7	May 29, 1945	
N 1254	U 75	ફ	County Line Road and Merrick Road, Amityville	古	28.7	14,04	55	May 27, 1945	
N 1255		સુ	Clinton Road and St. James Street, Garden Oltv	Ħ	54.6	79.56	61.0	May 29, 1945	Replaced N. Y. C. D. W. S. Well CH 196.
N 1256		સ્ક	Hillside Avenue and Bacon Road, Westbury	শ	50.5	112,54	76.5	ę	Replaced N. Y. C. D. W. S. Well Ch 201.
N 1257		નુક	Carmen and Scranton Avenues, East Rockaway	Ť	27.9	21,94	7.9	ą	Replaced N. Y. C. D. W. S. Well I. 44.
N 1258	¥ 58	N. Y. C. D. W. S.	Carmans Road, Farmingdale	4	20.8	48,19	57.6	ą	
N 1269		U. S. G. S.	Hicksville-Massapequa Road, Plainedre	作	47.5	78.87	52.5	độ	Replaced N. I. C. D. H. S. Hell M 185.
N 1260		No Co Do Po Wo	Main Street near Pittsburgh Avenue, Massapequa	常	29.5	55.14	21.6	May 51, 1943	Replaced N. Y. C. D. W. S. Well S 45.
N 1262 S	S 169	N. Y. C. D. W. S.	Wentagh Avenue near So. State Perkway, Wantagh	rifes Fr	17.1	40,96	54.8	May 29, 1945	
N 1265		N. C. D. P. W.	Wantagh and Farmingdale Roads, Central Park	4	52.2	65,97	50.8	op	Replaced N. Y. G. D. W. S. Well S 180
N 1264 S	281 3	N. Y. C. D. W. S.	Newbridge Road, near Sunrise Highway, Bellmore	Ť	25.	13,72	89 80	용	
N 1461		N. C. D. P. W.	New South Road at L. I. R. R., So. Hicksville	9	74.5	151,49	76.0	ф	Recorder well. Top of casing 2.0 feet above ground.
N 1462		op	Bloomingdale Road at L. I. R. R., Island Trees	ဖ	51.07	94,98	62.9	çç	do
N 1465		qo	Seaman's Neuk Road and So. State Patkway, Jerusalem	Ð	50.6	50.67	58.7	ę	do
N 1464		Ą	Grant and Franklin Avenues, Seaford	ဖ	42.1	50,32	16.1	ą	Recorder well. Top of casing 1.5 feet above ground.
N 1614 I	T 16T	N. Y. C. D. W. S.	Herricks Road, Garden City Park	<b>₹</b> T	55.8	100.70	₹ 1	t	
N 1615 CI	CI 264	<b>Q</b>	Merrick Avenue, East Hampstead	<del>ر پر</del>	9.53	82°.75	44.5	May 28, 1945	
N 1618 CI	276	ф	Post Avenue and Argyle Road, Westbury	-4cz	48*4	122,80	1.18	May 28, 1943	
N 1621 X	rt L	N. C. D. P. W.	Ведлетове	雪	£*09	85,85	39 <b>.</b> 5	May 28, 1943	
N 1622 X	<b>≈</b>	qo	Belmont Park	캮	55.0	76,07	55.6	op O	
N 1623 X	10	ф	Elmont	#	54.6	65,56	51.	ф	

Well Number			Diameter	Depth	Klevation of top of	Mater Level	
State Omer's	Own err	Location	(4mhes)	(feet)	(fee t)	(feet)	Remarks
N 1624 I 4	N. C. D. P. W.	Elmont	77	44.9	47.95		1943
N 1625 X 5	ફ	Valley Stream	**	56.8	57.57	18.2 do	
N 1626 X 6	ę	do.	#	24.8	16,14	11. 5 do	
N 1682	육	Grocus and Elm Avenues, Bellerose	랟	54.9	11.88	45.5 May 29, 1	1943
1685	윰	Stewart Avenue and 6th Street, New Hyde Park	13	45.9	85.05	55.7 May 51, 1	1945
1684	용	Madison and Stewart Avanues, Garden City	-	48.0	89,55		1.943
N 1828	ф	Melville Road, near Suffolk Co. Line, Farmingdale	છ	57.0	82.89	60.0 May 28, 1	1945 Recorder well replacing N 1248. Top of casing 2.0 feet above ground.
N 1829	ę	Stewart Avenue and Newbridge Avenue, Salisbury	ల	2.83	79,17	67.7 May 29, 1	
1860	Ą	Tyson Avenue near L. I. R. R., Floral Park	ဖ	68 <sub>6</sub> 1.	97,32	50.7 do	casing 2.5 feet above
Q 1089	N. Y. C. D. W. S.	North Conduit Avenue near L. I. R. R., Aquednot	οż	52.5	20°2	Le9 do	Replaced N. Y. C. D. W. S. Well A 55.
0601 0	<del>o</del> p	Hawtree Creek Road, near 1886 Avenue, Aqueduct	-\$1 1	42.2	31°95	4.2 do	Replaced N. Y. C. D. W. S. Well A 43.
9 1225	qo	Rocksmay Blvd. and 142d Place, South Ozone Park	αì	52.0	26.60	8.0 do	Replaced N. Y. C. D. W. S. Well A 55 A.
\$221 b	do	102d Avenue near Van Wyck Blvd., Jamaica	es	47.5	47,85	8.8 do	
9 1225	qo	109th Avenue and 200th Street, Hollis	œ	52.0	07.67	28.4 do	
0 1248	æ	100th Rd, and Belt Parkway, Queens Village	뿧	48.9	78,55	56.5 do	
4 1249	ક	106th Avenue and 218th Street, Queens Willage	Ť	49.5	72,35	\$2.5 do	
Q 1250	ф	Liberty and Camden Avenues, Hollis	13	26.0	57.56	21.2	
1251	Ą	107th Avenue and 172d Street, Jamaica	作	\$8°\$	42.69	11.8 do	
Q 1252	op O	Liberty Avenue and 157th Street, Jamaica	Ť	28.8	51.18	12.9 May 1,	1945
Q 1255	ą	101st Avenue and 121st Street, Richmond Hill		53.8	49,16	5.9 May 29,	1945
9 1254	ç	lolst Avenue and logth Street, Richmond Hill	-Ka :-1	53.7	45.46	±0.5 do	
q 1255	Ą	Atlantic Avenue and Woodhaven Blvd., Woodhaven	<b>14</b>	52.8	40,45	-5.2 do	Repleced N. Y. C. D. W. S. Well A25 A.
<b>Q</b> 1256	æ	95th Avenue and 82d Street, Woodbaven	**	57.e6	23,97	-2.9 do	
Q 1281	op Op	Liberty Avenue and Woodhaven Blyd., Oxone Park	ᡤ	58.8	28,78	-1.0 do	
<b>q</b> 1282	Ą	Liberty Avenue and 115th Street, Richmond Hill	7	<b>₹</b>	40°02	1.9 do	Replaced N. Y. C. D. W. S. Well A 38A.
9 1285	Ą	Rockemay Blvd. and 121st Street, So. Owone Park	14	32.6	26.74	4.9 do	
1284	ş	Rockaway Blvd, and Lincoln Street, So. Ozone Park	13	45.1	23.84	8 <sub>6</sub> 2 do	
9 1286	op	182d Street and 111th Avenue, So. Ozone Park	-** 	47.4	42,72	7.5 do	
9 1286	ф	144th Flace near Jamaica Avenue, Jamaica	**	0°67	46.84	10.5 do	
0 1287	do	Merrick Blvd. and 116th Avenue, St. Albans	ત્ય	27.1	25,55	12.8 do	
9831.9	ફ	Murdock Avenue and 180th Street, St. Albans	<b>1</b> 3	28.5	26.50	18,5 do	
Q 1289	ф	Springfield Elvd. and 110th Avenue, Queens Village	83	51.5	55,80	52.1 do	
0621 0	Ą	Merrick Road and Springfield Elvd., Springfield	<b>ત્</b> ય	25.22	24.05	16.9 do	
1292	ap	Union Turnpike and 185th Street, Jameica	r <mark>a</mark> r	44.0	67.73	27.5 do	
\$ 208	C. A. Gould	Wolf Hill Road, Deer Perk	10	259,0	205,45	71.5 do	
s 1803 su 12	N. Y. C. D. W. S.	Belmont Avenue and Farmingdale Road, Babylon	4	13.4	21,69	16.4 do	
\$ 1805	do	Farmingdele Road and Albany Avenue, Amityville	લ	6*23	57,19	45.0 do	Replaced N. Y. C. D. W.S. Well SU 37.

Mameter	Depth	7	1evation	Date	ø	
(fuches)	(feet)		(feet)			Remarks
4	29.7	86.58	56,4		50, 1945	
1,3	11.7	24.67	22.1		29, 1945	
74	14.7	15,85	11,1		q	N. I. C. B. W. S. Well 49 is nearby.
es.	27.0	41.49	29.5		do do	
**	47.8	90,10	50.9		qo	
77	57.0	<b>90°</b> 69	47.1	•	q;	
77	39.5	58.75	\$8.5		50, 1945	
-	48.7	79.65	57.0		29, 1945	
ħ	59.8	72,14	45.7		ą	
참	57.5	85,21	57.2		Ą	
**	23.6	58,95	51.9	_	Ą	
97	68.8	13,07	7.6		Ş	
Q.	20.0	35,29	28.0		do	Recorder well. Top of casing 2.2 feet above ground.
Suffolk Avenue and Elydenburgh Road, Central Islip 2	27,6	82.52	94.	Ť	Q.	
쓤	55.5	78,09	54.2	-	qo	
4	75.8	115,87	0.64	-	Ş	
14	64.9	103,81	48.4		ф	
妕	60.5	94,71	45.4		27, 1945	
63	609	107,41	68,4		Ą	
<b>6</b> 0	64.2	102,10	65.5	-	Q.	Recorder well.
22	94.5	154.22	66.4		29, 1945	
65	55.0	44,15	54.1	-	Ą	
©2	57.7	60,50	\$8.4	_	op op	
03	19.6	81,56	15,1		og.	
est.	7.42	51.478	52 53		27, 1945	
O.E	52°B	52,60	26.1	_	43	
02	9*24	47,54	19.0	May	29, 1945	
οŧ	49.5	72,57	57,5	May	27, 1945	
402	48.7	45,55	19.7	May	28, 1945	
Сò	9.69	49.24	27.0	May	27, 1945	
Cs.	55.2	46.45	25. 5.		æ	
62	56.7	54,02	8*98		\$	
es.	1	89°55	8.48		ą	
est.	88	87.71	55.1		çç	
63	34,1	58.42	26.6		Ş	
Ož.	45.5	65,92	35.55	_	<b>.</b>	
€¥	55.5	25,29	10.1		ģ	
o2	69,89	85.00	48.6		qo	
¢3	51,05	61.46	47.0		4	
· ¬			### 15.85  ### 11.7	### 15.85  ### 11.7	(Feet)         (Feet)         (Feet)           59,7         86,88         56,4         April 1           11,47         24,67         22,1         May           14,47         15,85         11,1         May           27,0         41,49         29,3         May           27,0         41,49         29,3         May           27,0         69,05         47,1         May           80,2         58,75         58,5         April           80,2         58,75         May           80,2         58,75         May           80,2         58,29         25,0         May           80,4         72,14         46,4         May           80,5         72,14         46,4         May           80,6         10,4,1         60,4         May           80,6         10,2,0         10,2         10,2           80,6         10,2,0	(feet)         (feet)         (feet)         (feet)           89,7         88,58         68,4         April 80, 11, 11         50, 11         50, 11

TECHTINE LINE	-			The number of	Dough	H	The tree of		
State Or	Owner's	Owner	Location	(inches)	(feet)	(feet)	(feet)	nate	Remarks
S 5545	120	N. Y. C. B.W. S.	Lincoln Ave., north of Church Street, Holbrook	63	46.0	56.56	56.7	May 29, 1945	
\$ \$727	129	Ą	Church St. near Lincoln Avenue, Sayville	61	0.34	40,06	52.0	June 29, 1944	
S 5728	186	-8	Near Montauk Hwy., and Taylor Ave., Hagerman	62	46.9	48,11	21.6	June 28, 1944	
S 5729	<b>5</b> 02	qo	Dunton and Barton Avenues, Hagerman	63	59.6	58,59	28.8	Sept.10, 1945	
8 5750	207	ફ	Dunton Ave. and So. Haven Rd., Plainfield	O2	57.2	80,45	55.4	June 28, 1944	
\$ 5751	848	-93	Taylor Ave. extension near Montauk Hwy, Hegerman	oş.	44.2	52,02	24.5	ф	
S 5752	259	op	Mt. Sinai Rd. near Port Jefferson Rd., Coram	αŧ	76.4	109,85	52.5	June 27, 1944	
\$ 5755	467	ф	Lincoln Ave. south of Church Street, Sayville	ત	47.2	56.79	17.9	June 29, 1944	
8 5755	1214	÷	Old Town Ed., near Dare Road, Selden	લ	54.9	115,08	65.6	June 27, 1944	
S 5756		U. S. G. S.	Lincoln Ave. and Schmidt St., Holbrook	17	57.9	95,25	44.4	June 29, 1944	
\$ 5757		අ	Holbrook Rd., south of Jericho Tpke, New Village	4	64.0	110,54	56.5	June 27, 1944	
S 5758		ક	Oxhead Rd. north of Jericho Tpke, New Village	4	68.8	114,59	56.7	June 50, 1944	
S 8789		æ	Lincoln Ave. near Church Street, Sayville	<b>1</b>	50.5	50.52	28.5	June 29, 1944	Replaced N. Y. G. B. W. S. Well 128.
S \$868		-93	Upper Sheep Pasture Rd. Setaukst Station	C\$	114.0	99 <b>.</b> 68	57.5	June 26, 1944	
5 \$869		ę	Mt. Sinei Rd. near Middle Country Rd., Coram	C)	44.0	84.57	55.2	June 27, 1944	
s 5870		કુ	Mill Pond Rd. near Middle Country Rd., Coram	€2	45,8	88,11	54.5	June 28, 1944	
S 5871		-8	Fire Rd. west of Bellport Rd., Flainfield	64	91.5	128,64	46.8	ф	
3 3955		Ą	Pond Rd. near Horseblock Rd., Setauket Station	**	78.0	122,45	53.1	June 27, 1944	
S 5956		<del>Q</del>	Millers Place and Yaphank Rds., Millers Place	17	124,4	145,47	51.7	ф	

Long Island Railroad L. I. R. R.

Nassau County Department of Public Works N. C. D. P. W.
N. I. G. B. W. S.
N. I. G. D. W. S.

City of New York, Board of Water Supply

Gity of New York, Department Water Supply, Gas and Electricity

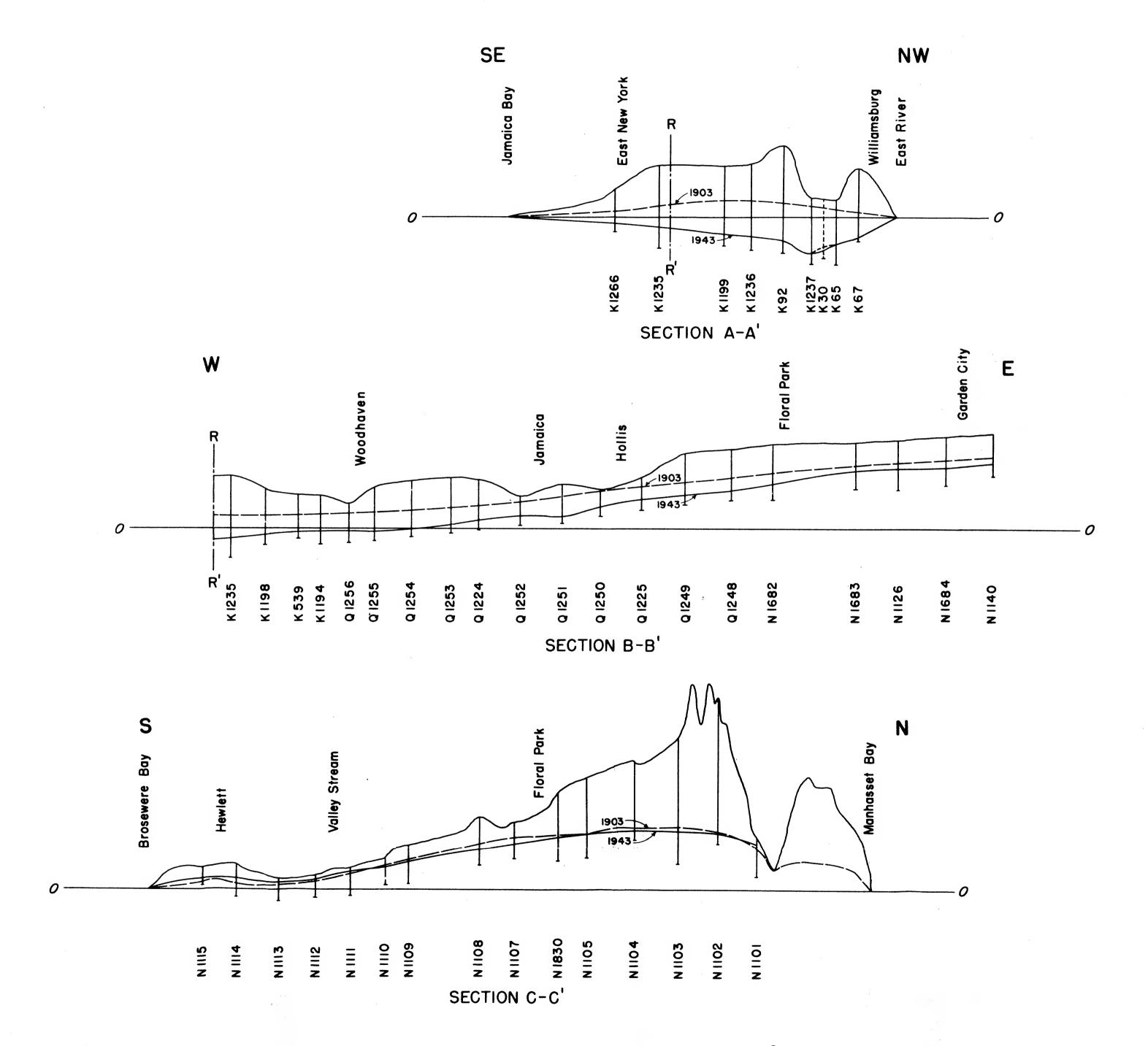
N. I. S. D. H.

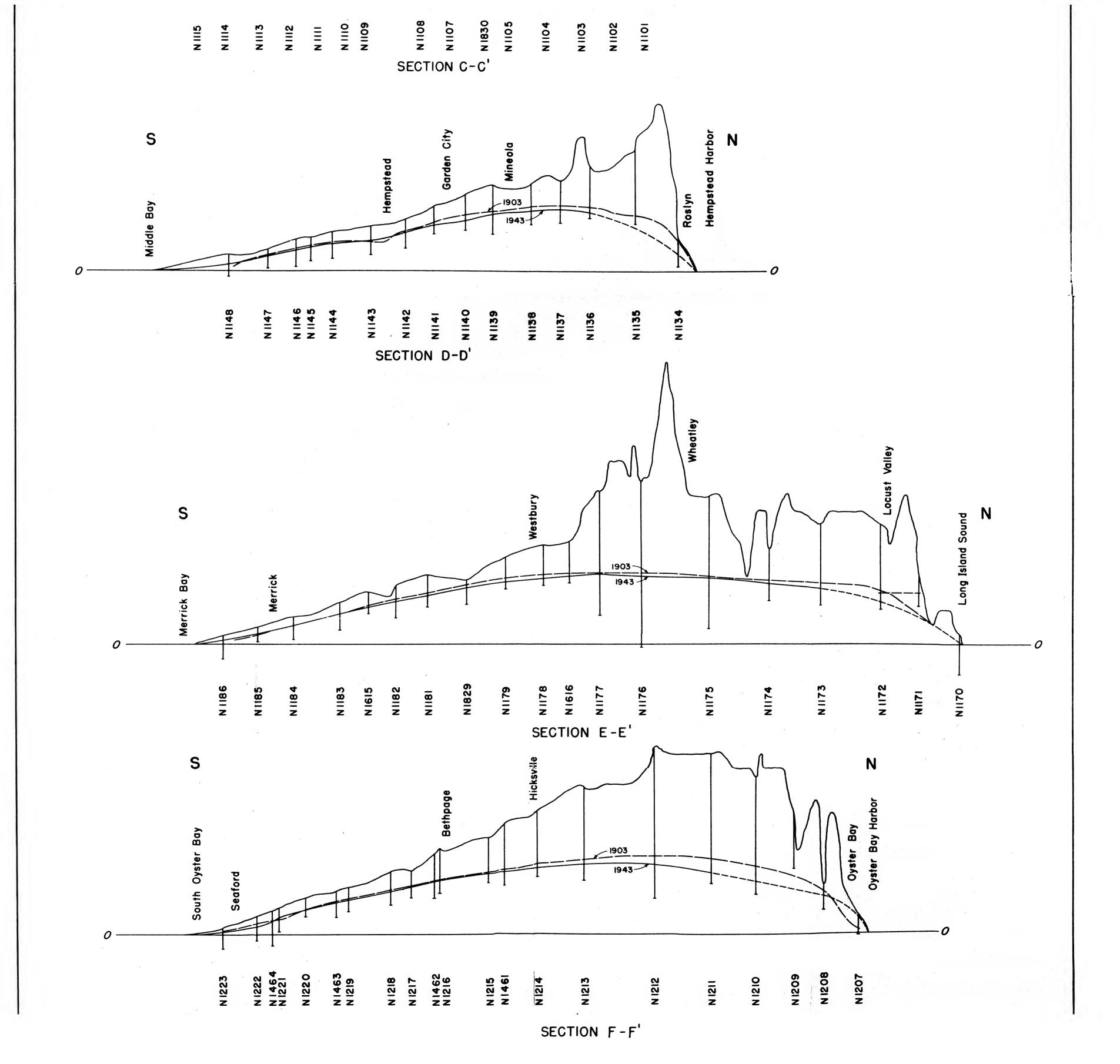
New York State Division of Highways N. Y. W. S. C.

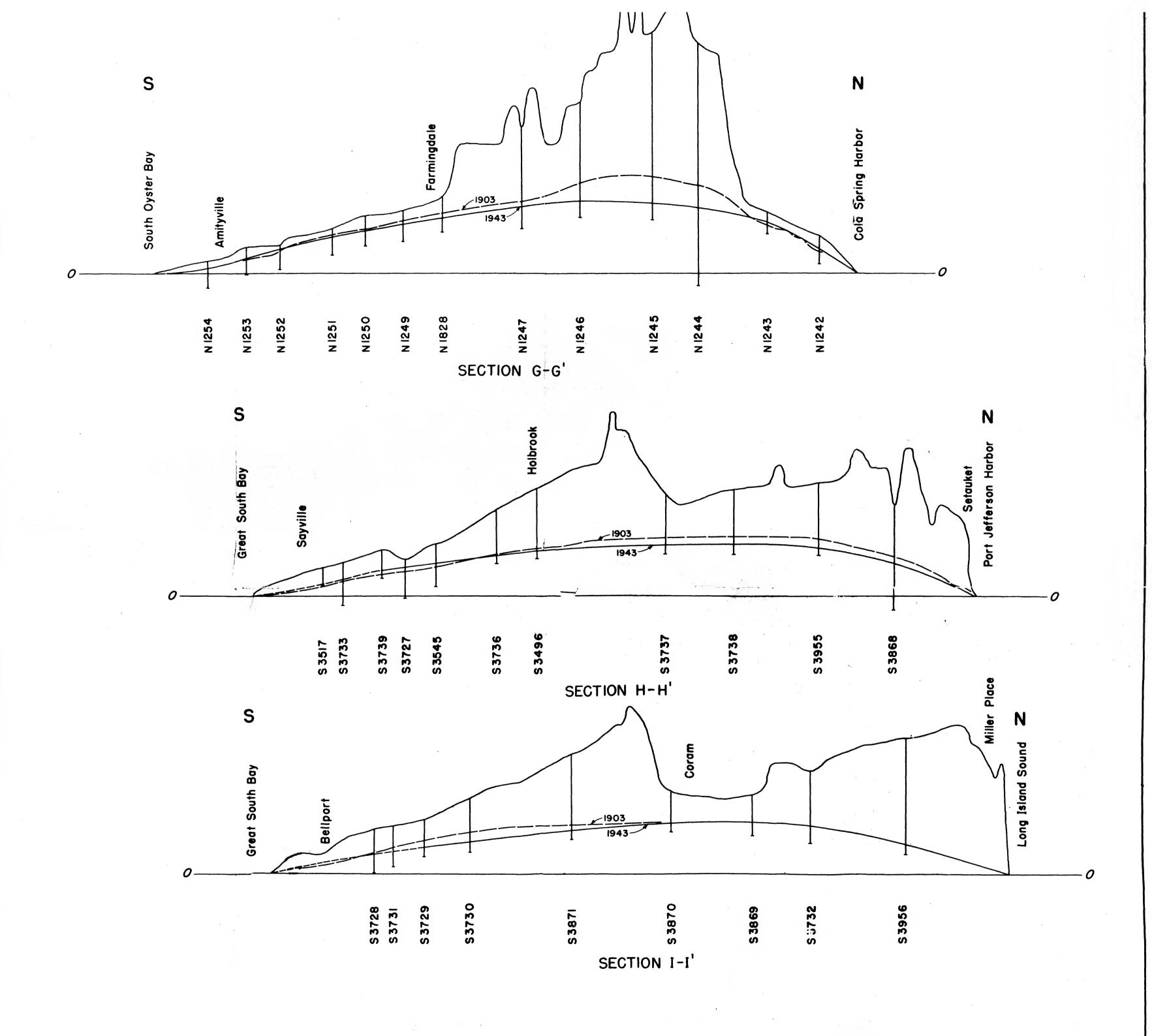
New York Water Service Corporation

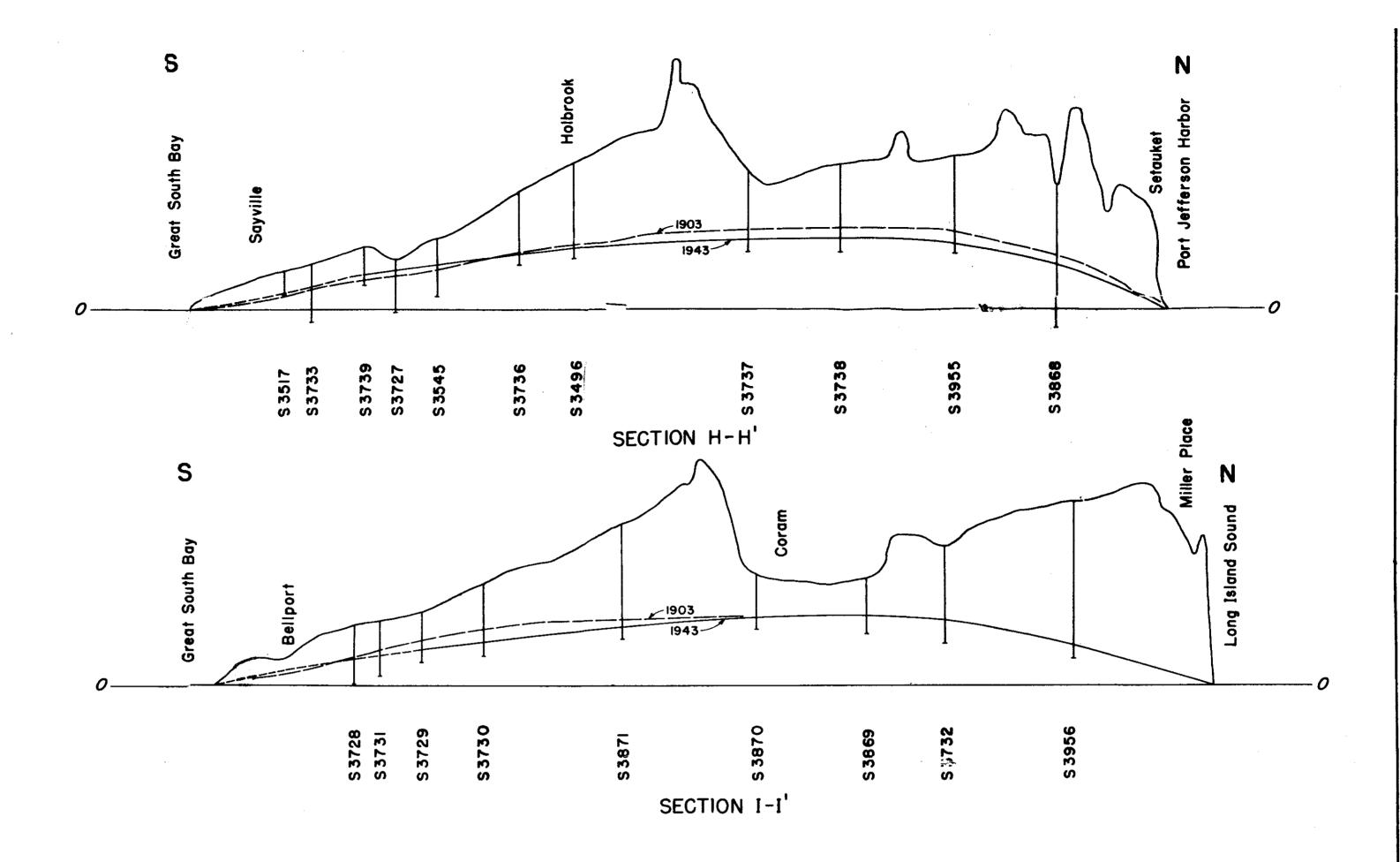
U. S. Geological Survey

Young Men's Christian Association U. S. G. S. Y. M. C. A.



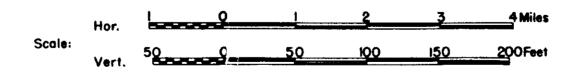






# U.S. GEOLOGICAL SURVEY CROSS-SECTIONS OF THE WESTERN AND CENTRAL PARTS OF LONG ISLAND, NEW YORK

SHOWING PROFILES OF THE WATER TABLE
IN 1903 AND 1943



Datum is mean sea level at Sandy Hook, N.J.

